## **Square Roots**

1. The area of a square is  $196 in^2$ . What is the length of one side of the square? Write and solve an equation, and then check your solution.

Let *x* in. represent the length of one side of the square.

$x^2 = 196$	Check:
$\sqrt{x^2} = \sqrt{196}$ $x = \sqrt{196}$ $x = 14$	$14^2 = 196$ 196 = 196

The length of one side of the square is 14 in.

2. What positive value of x would make the following equation true:  $19 + x^2 = 68$ ?

$$19 + x^{2} = 68$$
  

$$19 - 19 + x^{2} = 68 - 19$$
  

$$x^{2} = 49$$
  

$$x = 7$$

The positive value for x that makes the equation true is 7.

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